What is claimed is:

AMENDMENTS TO THE CLAIMS

Please replace the claims, including all prior versions, with the listing of claims below.

Listing of Claims:

1. (Currently Amended) ~~Method~~ A method for authenticating a subscriber ~~(MT,6)~~ for utilizing services in a wireless LAN ~~(WLAN,10)~~ while using an IP multimedia subsystem ~~(IMS,3)~~ of a mobile radio network,
~~characterized in that~~ comprising:

~~a subscriber (MT,6) who is to be authenticated and who is located at a location having wireless LAN coverage, receives~~ receiving an IP address from the wireless LAN ~~(WLAN,10) in an attributed manner~~, after which the subscriber receiving the IP address is authenticated ~~himself~~ to the IP multimedia subsystem ~~(IMS,3)~~ while giving ~~this~~the IP address, by means of SIP registration~~,~~; and

informing~~whereby~~ an element ~~(WAGW,2)~~ of the wireless LAN ~~(WLAN,10) is informed~~ of the result of the authentication of the subscriber ~~(MT,6)~~ with regard to the IP multimedia system ~~(IMS,3)~~.

2. (Currently Amended) ~~Method~~ The method according to Claim 1,
~~characterized in that~~ wherein
~~a~~the subscriber ~~(MT,6)~~ of ~~a~~the wireless LAN ~~(WLAN,10)~~ in ~~an~~the IP multimedia subsystem ~~(IMS,3)~~ is authenticated while using a home subscriber system ~~(HSS,5)~~.

3. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 1, wherein
~~a~~the subscriber ~~(MT,6)~~ in ~~a~~the wireless LAN ~~(WLAN,10)~~ in ~~an~~the IP multimedia subsystem ~~(IMS,3)~~ is authenticated while using an authentication server ~~(AAA server)~~.

4. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~

~~characterized in that~~claim 2, wherein

the subscriber ~~(MT,6)~~ transmits, via the wireless LAN ~~(WLAN,10)~~, an SIP register message to a device ~~(CSCF,4)~~ of the IP multimedia system ~~(IMS,3)~~, which transmits a request for authentication of ~~this~~the IP multimedia subsystem ~~(IMS,3)~~ subscriber~~, using the mechanisms provided for an IP multimedia subsystem authentication,~~ to the home subscriber system ~~(HSS,5)~~, after which the home subscriber system ~~(HSS,5)~~ authenticates the subscriber ~~(MT,6) using these mechanisms~~ and communicates the result of the authentication to the wireless LAN access gateway ~~(WAGW,2)~~.

5. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~

~~characterized in that~~ claim 1, wherein

an association is implemented between the subscriber terminal ~~(MT,6)~~ and the wireless LAN ~~(WLAN,10)~~ for ~~the purpose of~~ transmitting and receiving via the radio interface between subscriber ~~(MT,6)~~ and wireless LAN ~~(WLAN,10)~~.

6. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~

~~characterized in that~~ claim 1, wherein

the subscriber terminal ~~(MT,6)~~ receives ~~an~~the IP address from ~~the~~an address area of the wireless LAN ~~(WLAN,10)~~, with which – together with ~~all~~ other IP transport-based data ~~– it can~~ transmits and receives SIP messages that transport authentication messages from and to the IP multimedia subsystem ~~(IMS,3)~~.

7. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~

~~characterized in that~~claim 1, wherein

~~the~~ access to services is controlled via ~~a~~ the wireless LAN access gateway ~~(WAGW,2)~~, which monitors successful authentication in the IP multimedia subsystem ~~(IMS,3)~~.

8. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 1, wherein
the wireless LAN ~~(WLAN,10)~~ is connected to the IP multimedia subsystem ~~(IMS,3)~~ via a Gi interface.

9. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 1, wherein
the wireless LAN ~~(WLAN,10)~~ is connected to the IP multimedia subsystem ~~(IMS,3)~~ via an Mm interface.

10. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 1, wherein
~~the~~a result of the authentication ~~(P-CSCF,1)~~ is fed to ~~the~~a wireless LAN access gateway ~~(WAGW,2)~~ by a ~~(~~proxy-call state control function~~)~~/policy control function ~~(P-CSCF,1)~~ at a location having wireless LAN coverage.

11. (Currently Amended) ~~Method~~ The method according to Claim 7,
~~characterized in that~~ wherein
the wireless LAN ~~(WLAN,10)~~ has a proxy-call state control function node ~~(P-CSCF,1)~~ which forwards the SIP messages to ~~the~~a corresponding entity in the IP multimedia subsystem ~~(IMS,3)~~ and controls the WLAN access gateway ~~(WAGW,2)~~ with regard to the authentication result of the IP multimedia subsystem ~~(IMS,3)~~.

12. (Currently Amended) ~~Method~~ The method according to Claim 7, ~~characterized in that~~ wherein
instructions are provided to the WLAN access gateway ~~(WAGW,2)~~ based on ~~the basis of the~~ a result of the authentication in the IP multimedia subsystem ~~(IMS,3),~~ as to how ~~the~~ data traffic of a subscriber ~~(MT,6)~~ is to be handled by the wireless LAN access gateway ~~(WAGW,2), in particular instructions regarding the blocking of data traffic~~.

13. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~claim 12, wherein
the proxy-call state control function ~~(P-CSCF,1), by means of a policy control function,~~ controls the data traffic through the wireless LAN access gateway ~~(WAGW,2)~~ and grants, restricts, increases or declines ~~the~~ a quantity and/or quality of the data flow of a subscriber ~~(MT,6)~~ through the wireless LAN access gateway ~~(WAGW,2)~~.

14. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 13, wherein
the policy control function is part of the proxy-call state control function node ~~(P-CSCF,1) or is a separate unit~~.

15. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~ claim 12, wherein
the result of the authentication is fed to the wireless LAN access gateway ~~(WAGW,2)~~ by the call state control function ~~(CSCF,4)~~ /policy control function in the IP multimedia subsystem ~~(IMS,3)~~.

16. (Currently Amended) ~~Method~~ The method according to Claim 12,

~~characterized in that~~ wherein

the call state control function node ~~(CSCF,4)~~ of the IP multimedia subsystem ~~(IMS,3)~~ controls the wireless LAN access gateway ~~(WAGW,2)~~ with regard to the authentication result of the IP multimedia subsystem ~~(IMS,3)~~.

17. (Currently Amended) ~~Method~~ The method according to Claim 13,

~~characterized in that~~ wherein

a Go interface is installed between the call state control function node ~~(CSCF,4)~~ of the IP multimedia subsystem ~~(IMS,3)~~ and the wireless LAN access gateway ~~(WAGW,2),~~ for protected data transfer.

18. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~

~~characterized in that~~ claim 1, wherein

~~the~~an authentication result is evaluated by expanded functionalities in the wireless LAN access gateway ~~(WAGW,2)~~.

19. (Currently Amended) ~~Method~~ The method according to Claim 16,

~~characterized in that~~ wherein

the authentication result received from the IP multimedia subsystem ~~(IMS,3)~~ is converted by the wireless LAN access gateway ~~(WAGW,2)~~, where~~by~~in ~~said~~the WLAN access gateway ~~(WAGW,2)~~ allows subscriber data to pass there through ~~completely or with restrictions~~.

20. (Currently Amended) ~~Method~~ The method according to Claim 13,

~~characterized in that~~ wherein

the evaluation of the authentication result is implemented using an "application layer gateway".

21. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~claim 1, wherein
the subscriber ~~(MT,6)~~ of the wireless LAN ~~(WLAN,10)~~ is also a subscriber of the mobile communication network.

22. (Currently Amended) ~~Method~~ The method according to ~~one of the above claims,~~
~~characterized in that~~claim 1, wherein
the wireless LAN network ~~(WLAN,10)~~ is integrated into mobile communication networks with ~~the help~~paid of ETSI HiperLan and IEEE 802.11.

23. (Currently Amended) ~~Device~~ A device for authenticating a subscriber ~~(MT,6)~~ for utilizing services in a wireless LAN ~~(WLAN,10)~~ with ~~the help~~paid of an IP multimedia subsystem ~~(IMS,3)~~ of a mobile radio network, ~~said device having~~comprising:
[[-]]an IP multimedia system ~~(IMS,3)~~ for authenticating a subscriber ~~(MT,6) who is~~ to be authenticated by means of SIP registration, and ~~who is~~ located at a location having wireless LAN coverage, by giving an IP address allocated by the wireless LAN ~~(WLAN,10),~~; and
[[-]] an IP multimedia subsystem ~~(IMS,3)~~ for informing an element ~~(WAGW,2)~~ of the wireless LAN ~~(WLAN,10)~~ of ~~the~~a result of the authentication of the subscriber ~~(MT,6)~~ with regard to the IP multimedia subsystem ~~(IMS,3)~~.

24. (Currently Amended) ~~Device~~ The device according to Claim 23,
~~characterized in that~~ wherein
a second device constituting the proxy call state control function node ~~(CSCF,1)~~ is a node in the wireless LAN ~~(WLAN,10)~~.

25. (Currently Amended) ~~Device~~ The device according to ~~one of Claims 23 to 24, characterized in that~~ claim 24, wherein

the second device constituting the proxy call state control function node ~~(CSCF,1)~~ of the IP multimedia subsystem ~~(IMS,3)~~ is provided for controlling authentication in the wireless LAN ~~(WLAN,10)~~.

26. (Currently Amended) ~~Device~~ The device according to ~~one of Claims 23 to 25, characterized in that~~ claim 25, wherein

the wireless LAN access gateway ~~(WAGW,2)~~ has a third device that is configured such that ~~said~~the device converts the authentication result which is received from the IP multimedia subsystem ~~(IMS,3)~~, by allowing subscriber data to pass there through ~~completely or with restrictions~~.